Managed Switch

SMC8708L2

TigerSwitch™ 10G

Standalone 8-port XFP 10G Managed Layer 2 switch

OVERVIEW

The TigerSwitch 10G 10-Gigabit Ethernet switch delivers flexibility, wire-speed performance, superior port density, and a complete standard Layer 2 feature set to address low-cost and high performance switching requirements of enterprise and SMB customers.

Only 1 rack unit (1RU) high, the TigerSwitch 10G is an excellent choice to deliver 10 Gigabit Over fiber within the wiring closet and server farm, and backbone. The TigerSwitch 10G is easy to configure and maintain. It offers a cost effective and high-performance Layer 2 solution for enterprise network deployments.

Each TigerSwitch 10G ships with a complete standard Layer 2 feature set including 802.1Q VLANs, 802.1p, DSCP, TCP/UDP port based QoS, 802.1D Spanning Tree Protocol, 802.1w Rapid Spanning Tree Protocol, 802.1S (Multiple Spanning Tree), 802.3x-based flow control, BootP/DHCP, TFTP, Generic VLAN Registration Protocol (GVRP), Internet Group Management Protocol (IGMP) Snooping, and port mirroring. With support for eight queues per port based on 802.1p, the TigerSwitch 10G provides critical Quality of Service (QoS) features for next-generation applications such as Voice over IP and streaming audio or video.

With an easy-to-use, industry-standard Command Line Interface (CLI), Telnet based interface,and Web-based GUI including secure access using SSH/SSL, the TigerSwitch 10G is easy and secure to configure, deploy and maintain.

The TigerSwitch 10G 10-GbE switches are well-suited to enterprise wiring closet, data center, and backbone deployments. Enterprise customers wanting to future-proof their network with 10-GbE can deploy the TigerSwitch 10G 10-GbE switches in their network.

FEATURES	BENEFITS
High port density 10G switch in 1U box	Supports up to 8 XFP 10G ports
Full wire-speed switching performance	Non-blocking 160Gbps switch fabric for maximum switching performance
Priority queuing	Eight levels of priority, with weighted fair queuing, ensures smooth transmission of vital data
VLAN with GVRP	Supports VLANs based on tags, ports, or protocol, plus support for automatic GVRP LAN registration for maximum security and bandwidth efficiency.
IGMP	IGMP allows multicast traffic transmission to registered users only.
LACP for link aggregation	Port trunking group links between switches, increases bandwidth for dedicated link
Port mirroring	Rate limiting to prevent monopoly of bandwidth from a single user
Port and system security	Security control and authentication such as SSH, SSL, HTTP, 802.1x to ensure a secure network.
SNMP, RMON, spanning tree algorithm	

TECHNICAL SPECIFICATIONS SMC8708L2

PORTS
- SMC8708L2: 8 10G-BASE ports
- Built-in Network Management

NETWORK INTERFACE
- XFP Transceiver slots supporting SR, LR and ER XFP.
- Multimode fiber cable; 62.5/125 or 50/125 microns
- Singlemode fiber cable: 9/125 micron

Switch fabric
- 160Gbps
- 120Mpps

Buffer Architecture
- 8Mbytes

SWITCHING DATABASE
- 16K MAC address entries

LED
- System: Power, RPU , Diag,
- Port: Link/activity, XFP Module

WEIGHT
- 5.84kg
- 12.87lbs

DIMENSION
- 440 x 415 x 43 mm
- 17.3 x 16.3 x 1.8 in

TEMPERATURE
- Operating: 0 to 50 °C
  32 to 122 °F
- Storage: -40 to 70 °C
- -40 to 158 °F

HUMIDITY
- Operating: 5% to 95% (non-condensing)

AC Input
- 100 to 240 V, 50-60 Hz, 2A

POWER SUPPLY
- Internal, auto-ranging transformer: 100 to 240 VAC, 50 to 60 Hz
- External, supports connection for redundant power supply

Power Consumption
- 150 Watts maximum

Maximum Current
- 2.00 A @ 100 VAC
- 1.00 A @ 240 VAC

MTBF
- 47271 hours at 50 degrees celcius

SWITCH FEATURES
- Spanning Tree Protocol (802.1D, .1w, .1s)
- Forwarding Mode
  - Store-and-forward
- VLAN Support
  - Up to 255 groups; port-based or with 802.1Q
  - VLAN tagging, GVRP for automatic VLAN learning
  - 802.1v (Protocol based Vlans)
- Quality of Service
  - Supports four levels of priority with flexible classification and prioritization
- MultiLink Trunking (LACP)
- Port Mirroring
- TACACS+ client authentication
- HTTPS and SSL
- SSH for Telnet sessions
- Rate limiting
- Static port security
- Jumbo Frame support

MANAGEMENT FEATURES
- In-Band Management
  - Telnet, SLIP, Web-based HTTP, or SNMP manager
- Out-of-Band Management
  - RS-232 DB-9 console port
- Software Loading
  - TFTP in-band or Xmodem out-of-band
- MIB Support
- MIB II (RFC 1213), Bridging MIB (RFC 1493), Ethernet-Like MIB (RFC 1643), RMON MIB (RFC 1757), SMC's private MIB

RMON SUPPORT
- Groups 1,2,3, 9 (Statistics, History, Alarm, Event)

Standards
- IEEE802.3 Ethernet, IEEE802.3u Fast Ethernet,
- IEEE802.1D Spanning Tree Protocol and traffic priorities,
- IEEE802.1p Priority tags
- IEEE802.1Q VLAN
- IEEE802.1ac VLAN tagging
- IEEE802.1ad Link aggregation control protocol
- IEEE802.1w Rapid Spanning Tree

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